

SEQUENCE LISTING

> Rhodes, Kenneth Betty, Maria Ling, Husi-Ping An, Wenq.an

<12>> POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR

4130> MNI-070CP4

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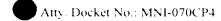
+221> CDS

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gggnogggae oggggtad	da adtogoadto ad	igtattaga rysa	atg ggg gcc gtc Met Gly Ala Val 1	236
atg ggc acc tto tca Met 3ly Thr Phe Ser 5				284
gat aag att gaa gat Asp Lys Ile 3li Asp 25				33.2
gag gga otg gag bag Glu Gly Leu Glu Gln 40		n Thr Asn Pne I		380
otg dag gto ott tat Leu Glm Val Leu Tyr 55		2 2 2		428
gto aac gaa gas asa Val Asr Glu Asp Thr 70				476
gga gat god agd abg Gly Asp Ala Ser Thr 35	3	-	•	5.2.4
act dag ada ggd tod Thr Gln Thr Gly Ser 105				572
att tta ttg aga gga Ile Leu Leu Arg Gly 120		Lys Leu Arg T		620
ttg tat gac atc aac Leu Tyr Asp Ile Asn 135		lle Asr. Lys G		6€8
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tyggassagaa asasettta sasttigaa gaattetety sigaagasti tottatygaa 1032
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-1210 · 2

H211 + 216

HE12 - PRT

+0213 - Homo sapiens

-400 - 2

Met Gly Ala Val Met Gly Thr Phe Ser Ser Leu Gln Thr Lys Gln Arg

1 10 15

Arg Pro Ser Lys Asp Lys Ile Glu Asp Glu Leu Glu Met Thr Met Val 20 25 30

Cys His Arg Pro Glu Gly Leu Glu Gin Leu Glu Ala Gln Thr Asn Phe 35 40 45

Thr Lys Arg Glu Leu Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys 50 55 60

Pro Ser Gly Val Val Asn Glu Asp Thr Phe Lys Gln Ile Tyr Ala Gln 65 70 75 80

Phe Phe Pro His Gly Asp Ala Ser Thr Tyr Ala His Tyr Lou Phe Ash

All Phe Asy Thr Thr Gli. Thr Gly Ser Val Lys Phe Glu Asp Phe Val 100 105

Thr Ala Leu Ser Ile Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg 115 120 125

Trp Thr Phe Ash Leu Tyr Asp Ile Ash Ivo Ash The The Ill Is Is

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Va. Phe Phe Gin Lys Met Asp Lys Ash Lys Asp Gly Ile Val Thr Leu Asp Glu Phe Leu Glu Ser Cys Gln Glu Asp Asp Asn Ile Met Arg Ser 195 Leu Gin Leu Phe Gln Asn Val Met <2100 3 <311> 1856 <212> DNA <213> Fattus sp. <3200 KUULIE CDS  $<222 \times (300) \dots (1034)$ **交益(10)** (2) (3) ggwanacasc cootgyalle troggagaat atgoogtgag gtgttgccaa ttattagtto 60 tottggotag cagatgitta gggaciggit aagootitigg agaaattacc itaggaaaac 120 gqqgaaataa aagbaaagat tacbatgaat tgcaagatta botagcaatt gcaaggtagg 180 aqqaqaqagg tggaqgqcgg agtagacagg agggagggaq aaagtgagag gaagctaggc 240 tuuttagaaat aabootgoob tiggaacago ggoaaagaag bgogatitto cagottitaa 299 3:7 atq bot goo ogo git oig oit goo tao oog gga acg gag atg itg abo Most Pro Ala Arg Val Leu Leu Ala Tyr Pro Gly Thr Glu Met Leu Thr 395 con age gag tot gaa ggg ete dag ade tig ggg ata gia gig gid eig G.n Gly Glu Ser Glu Gly Leu Gln Thr Leu Gly Ile Val Val Leu 2:0 tyr, too tot otg aaa ota otg cao tao oto ggg otg att gao ttg tog. 443 Cys Ser Ser Leu Lys Leu His Tyr Leu Gly Leu Ile Asp Leu Ser 35 gat gas aag ato gag gat gat otg gag atg acc atg gtt tgc sat ogg Asp Asp Lys Ile Glu Asp Asp Leu Glu Met Thr Met Val Cys His Arg 7. jij jji vilj jag dag dit gåg gda dag adg aad tid add aag aga 539 Pro Glu Gly Leu Glu Gln Leu Glu Ala Gln Thr Asn Phe Thr Lys Arg gaa etg caa gto ett tac egg gga tto aaa aan gag tg: :::: ant gg: Glu Led 31h Vai Led Tyr Arg 31y Phe Lys Ash 31u Cys Fro Ser Gly

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														acg Thr		
														gag Glu 175		827
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														tta Phe		923
														gaa Glu		9"1
														cag Gln		1019
			gtc Val		taad	stgaç	iga o	ractç	ggee	at co	etget	uataa	ı gad	gadad	etga	1074
caaa	acaco	ete a	aatgo	cact	ga to	etged	atto	g tto	ccagt	ittt	acac	catica	aac :	tataç	gggaca	1134
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cgaç	gtggd	ctc a	agtot	etga	at to	godaa	etet	tec	ataca	itaa	taat	icttq	jag a	aggga	acgage	1254
tgaa	atco	cga a	agttt	igtt	t gg	gaago	atgo	c dea	atcto	ctcc	atgo	ctąct	iga t	tgaad	etgtgg	1314
aago	gada	ata t	gatt	gage	ot ta	aaaca	igtaç	g tgo	cacaç	gttt	tata	gegta	ata d	cagat	idocca	1374
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R2105 4

<211> 245

<212> FRT

<213> Rattus sp.

<400> 4

Met Pro Ala Arg Val Leu Leu Ala Tyr Pro Gly Thr Glu Met Leu Thr
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Gln Gly Glu Ser Glu Gly Leu Gl<br/>n Thr Leu Gly Ile Val Val Leu  $20 \,$   $\,$   $25 \,$   $\,$   $30 \,$ 

Cys Ser Ser Leu Lys Leu Leu His Tyr Leu Gly Leu Ile Asp Leu Ser 35 40 45

Asp Asp Lys Ile Glu Asp Asp Leu Glu Met Thr Met Val Cys His Arg 50 60

Pro Glu Gly Leu Glu Gln Leu Glu Ala Gln Thr Asn Phe Thr Lys Arg  $-6^\circ$  75 30

Glu Leu Glr Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly 85 95

Val Val Ash Glu Glu Thr Phe Lys Gln Ile Tyr Ala Gln Phe Phe Pro 100 - 100 110

His Gly Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Ash Ala Phe Asp 115 1:0 125

Thr Thr Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val Thr Ala Leu 136 140

Ser The Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg Trp Thr Phe 145 150 155 160

Asr. Leu Tyr Asp Ile Asr Lys Asp Gly Tyr Ile Asr. Lys Glu Glu Met 165 170 175

Met Asp Ile Val Lys Ala Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr 180 180 190

Pro Val Leu Lys Glu Asp Thr Pro Arg Gln His Val Asp Val Phe Phe 190 200 200

Gin Nya Mot Asp Nya Ash Nya Asp Gly Ile Val Thr Leu Asp Glu Phe 210 220

Leu Glu Ser Cys Gln Glu Asp Asp Asn Ile Met Arg Ser Leu Gln Leu 225 - 230 - 235 - 240

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egggeggage geaget	teccg cacegeacge	e ggegeggget	eggeageste gge	gtgegg 120
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gaagocagty goods	gotgg gtgobogdak	oggggggggg	ctgtgaagge tee	gogage 240
ototggooot gggagt	toagt goatgtgoot	t ggotgaagaa	ggbagdagdd adga	igoticoa 300
ggogodogg dooba:	ogttt totgaatac	c aagotgoagg	ogagotgoto ggg:	gattitti 360
tgotttotog offit:	ootot cotocaatto	c aaagtgggca	atocacacog atti	attita 420
aggggaggga agaga:	baggg dotggggtdd	о свадардово	abaagtotho got:	Mcc atg 479 Met 1
ggg geo gto atg g Gly Ala Val Met d 5				
occ tot ass gad : Pro Ser Lys Asp I 20	<del>-</del>			-
cas egg est gag ; His Arg Pro Glu ( 35				
aag aga gaa otg : Lys Arg Glu Leu ( 50				
ago ggt gtg gto a Ser Gly Val Val A				. Phe
tto cot dad gga k Pho Pro His Gly 7 85				
ttc gac acc acc c Phe Asp Thr Thr ( 100				
ant objectig Abber Ala Leu Ser Ile I	ta itq aga ggg en len Ard Oly	aca gto dat The USI Him	gaa aaa cta agc :::: ::: ::	r tgg - 803 

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gag ang ang gao ata gno ada gno and tat gao ang ang ggg ada tao 3 Glu Met Met Asp Ile Val Lys Ala Ile Tyr Asp Met Met Gly Lys Tyr 180 185 160	959
acc tat cot gtg ctc aaa gag gad act coc agg cag cat gtg gat gtd. Thr Tyr Pro Val Leu Lys Glu Asp Thr Pro Arg Gln His Val Asp Val 165	1007
tto tto dag aaa atg gat aaa aat aaa gat ggo att gta acg tta gat ? Phe Phe Gln Lys Met Asp Lys Asn Lys Asp Gly Ile Val Thr Leu Asp 180 185 190	1055
gaa tit ott gaa toa tgt oag gag gat gad aad atd atg aga tot ota Glu Phe Leu Glu Ser Cys Gln Glu Asp Asp Asn Ile Met Arg Ser Leu 195 200 205	1103
dag otg tto baa aat gto atg taactgagga babtggboat totgotbtoa (Gln Leu Phe Gln Ash Val Met 210) 215	1154
gagacastga caaasasstt aatgeeetga tetgeesttg ttosaatttt asacacsaac l	1214
tottgggaca gaaatacott ttacactttg gaagaattot otgotgaaga otttotacaa l	1274
aabbtggcac cacgtggoto tgtototgag ggacgagogg agatobgact ttgttttgga [	1334
ageatyceca totottoaty etgotgecet gtggaagges estetgettg agettaatea 3	1394
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gettetette etetggtygg aagaaagagt gitetaegga acaattagag ettaecatga 1	1574
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gatatbagat gatgoaaatt goodatgtoa tittititoaa aggiagggad aaatgatist 1	1694
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tgtocagtgg totatocoto etetecated eetgeteaaa eecageaetg catgtocoto 1	1814
raagaaggto cagaatgoot qogaaargot gtartttiat abrotgitiit aatraataaa 1	1874
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<210> 6 <211> 016 <012> FRT <213> Mus musculus

+400% F

Type Him Arabita (415) thy isolated the time Girc Alactic Tracket (48)

Atty. Docket No: MNI-070CP4

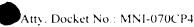
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tug too otg dag ado aaa daa agg oga doortot aaa gar ato god tgg. Ser Ser Leu Glm Thr Lys Glm Arg Arg Pro Sor Lys Asp Ille Ala Trp

														tta Phe		246
														cag Gln		294
														cat His		342
														tta Phe		390
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			_		_	_	-				-			gad Asp		534
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caaacagooo atgicattii titticcagag giagggacta ataattotoo cacactagca 1331 cotacqatba taqaabaagt ottitaabac atocaggagg gaaaccyctg cocagtiggto 1391 tatocettot etecatocee tgeteaagee dageastgew tgtetotees ggaaggteea 1451 qaatgootgt gaaatgotgt aacttttata ooctgttata atcaataaac agaactattt 1511 1534 cgtacaaaaa aaaaaaaaaa aaa

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<211 - 227

<212: PRT

<213: Rattus sp.

<4000 €

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Lys lle Glu Asp Asp Leu Glu Met Thr Met Val Cys His Arg Pro Glu

Gly Leu Glu Gln Leu Glu Ala Gln Thr Asn Phe Thr Lys Arg Glu Leu

Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Val Val

Ash Glu Glu Thr Phe Lys Gln Ile Tyr Ala Gln Phe Phe Pro His Gly

Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn Ala Phe Asp Thr Thr 105 100

Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val Thr Asa Leu Ser Ile 120

Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg Trp Thr Fhe Ash Leu 135

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Ile Val Lys Ala Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Val

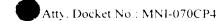
Lem Lys Glu Asp Thr Fro Arg Bin His Val Asp Val Phe Fhe Gin Lys

<sup>.</sup> The contrast of the second contrast of the

Asn Val Met 225 <210: 9 <211> 1540 <212> DNA <213> Mus musculus <.220> <221> CDS <.:22> 77)..(757) <:00> 9 atboacaceg attictitic aggggaggga ayagacaggg cetggggtee caagacgeae 60 areagtette getgee atg ggg gee gto atg gge act tto too too otg bag 112 Met Gly Ala Val Met Gly Thr Phe Ser Ser Leu Gln als aaa caa agg oga ood tot aaa gad ato goo tgg tgg tat tac bag Thr Lys Gln Arg Arg Pro Ser Lys Asp Ile Ala Trp Trp Tyr Tyr Gln tat bag aga gab aag att gag gat gag bta gag atg abb atg gtt tgb Tyr Glr. Arg Asp Lys Ile Glu Asp Glu Leu Glu Met Thr Met Val Cys cas agg cot gag gga atg gag dag ott gag goa dag acg aac tto acc His Arg Pro Slu Gly Leu Glu Gln Leu Glu Ala Gin Thr Ash Phe Thr away aga gaa sty saa gto tty tac ogy gga tto aaa aac gay tyo oot 3.(1.4 Lys Arg Glu Leu Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro ago ggt gtg gtc aat gaa gaa aca ttc aag cag atc tac gct cag ttt 350 Ser Gly Val Val Asn Glu Glu Thr Phe Lys Gln Ile Tyr Ala Gln Phe the dot cad gga gat god ago ada tat goa dat tad dto the aat god 400 Phe Pro His Gly Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn Ala 100 other game alone abore had aloue gight time give leage time gigg guine to legicle act. 44. The Asp Thr Thr Gln Thr Gly Ser Val Lys Phe Glu Asp Pho Val Thr 115 get etg teg att tta etg aga ggg aca gte eat gaa aaa eta agg tgg Ala Leu Ser Ile Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg 135 130

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tto tto dag aaa atg gat aaa aat aaa gat ggo att gta abg tta gat Phe Phe Gln Lys Met Asp Lys Asn Lys Asp Gly Ile Val Thr Leu Asp 190 195 200	688
gaa ttt ett gaa tea tgt bag gag gat gae aac ate atg aga tet eta Glu Phe Leu Glu Ser Cys Gln Glu Asp Asp Asn Ile Met Arg Ser Leu 205 210 220	736
cag otg tto caa aat gto atg taactgagga cactggocat totgototoa Gln Leu Phe Gln Asn Val Met 225	787
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cagaactatt togtacaaaa aaaaaaaaaa aaa	1540
RO102 10	

<sup>02102 10</sup> 0211 0117 02122 PRT

<sup>-213-</sup> Mus musculus

<sup>&</sup>lt;400> 10

Met Gly Ala Val Met Gly Thr Phe Ser Ser Leu Gln Thr Lys Gln Arg

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+223 - Maseany amino avid

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Gin Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys Fro Ser Gly Val Val
Ash Glu Glu Thr Phe Lys Gln Ile Tyr Ala Gln Phe Phe Pro His Gly
Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn Ala Phe Asp Thr Thr
                                105
GIn Thr Gly Ser Val Lys Phe Glu Asp Phe Val Thr Ala Leu Ser Ile
Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg Trp Thr Phe Asn Leu
                        135
Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Asn Lys Glu Glu Met Met Asp
I'e Val Lys Ala Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Val
Low Lys Giu Asp Thr Pro Arg Gln His Val Asp Val Phe Phe Gln Lys
                 185
Met Asp Lys Asn Lys Asp Gly Ile Val Thr Leu Asp Glu Phe Leu Glu
                            200
Ser Cys Gln Glu Asp Asp Asn Ile Met Arg Ser Leu Gln Leu Phe Gln
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Asn Val Met
2.15
-1.110 - 11
3.211: 955
-1.112 - INA
-0313 - Rattus sp.
11.1201
42210 CDS
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wads, nea,c,g, or t
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tttaaatgoo tgucogo	gtt otgottgoot av	ocogggaac gga	ag atg ttg ac Met Leu Th 1	
gge gag tot gaa gg Gly Glu Ser Glu Gl 5				
too tot otg aaa ot Ser Ser Leu Lys Le 2	-			Ásp
gad aag ato gag ga Asp Lys Ile 31u As 40		Thr Met Val		
gag gga otg gag da Glu Gly Leu Glu Gl 55				
otg daa gtd ott ta Leu Gln Val Leu Fy 70			s Pro Ser Gly	
gtt aac gaa gag ac Val Asr. Glu Glu Th 85				
gga gat god agd ad Gly Asp Ala Ser Th 10	r Tyr Ala His Ty:			
acc cag aca ggc to Thr Gln Thr Gly Se 120		ı Asp Phe Val		
att tta ctg aga gg Ile Leu Leu Arg Gl 135				
tig tab gas ato aa Led Tyr Asp Ele As 150			t Win Blo Met	
gas ata grg aaa gs Asp Ile Val Lys Al 165				
gig oto ada dag da Val Leu Lvs Glu As	o art ind agg sag p Thr Ser Art Olr	j Sar jij gio h His Val Arr		Sag 932

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<213> Rattus sp.

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Asp Leu Ser Asp Asp Lys Ile Glu Asp Asp Leu Glu Met Thr Met Val 35 40 45

Cys His Arg Pro Glu Gly Leu Glu Gln Leu Glu Ala Gin Thr Asn Phe 50 55 60

Thr Lys Arg Glu Leu Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys 65 70 75 80

Pro Ser Gly Val Val Ash Glu Glu Thr Phe Lys Xaa Ile Tyr Ala Gir. 85 90 95

Phe Phe Pro His Gly Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asr. 100 - 105

Ala Phe Asp Thr Thr Glr Thr Gly Ser Val Lys Phe Glu Asp Phe Val 115 120 125

Thr Ala Leu Ser Ile Leu Leu Arg Gly Thr Val His Glu Lys Leu Lys 130 135

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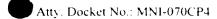
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Lys Ala Leu Lys Gln Arg Fhe Leu Lys Leu Leu Fro Cys Cys Gly Pro Glm Ala Leu Pro Ser Val Ser Glu Thr Leu Ala Ala Pro Ala Ser Leu Arg Pro His Arg Pro Arg Leu Leu Asp Pro Asp Ser Val Asp Asp Glu Phe Glu Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu Glu Gln Leu Sin Slu Sln Thr Lys Phe Thr Arg Lys Glu Leu Gln Val Leu Tyr Arg Gly Pho Lys Asn Glu Cys Pro Ser Gly Ile Val Asn Glu Glu Asn Phe Lys Glr. He Tyr Ser Gln Phe Phe Pro Gln Gly Asp Ser Ser Thr Tyr 135 Ala Thr Phe Leu Phe Ash Ala Phe Asp Thr Ash His Asp Gly Ser Val 150 155 160 Ser Phe Glu Asp Phe Val Ala Gly Leu Ser Val Ile Leu Arg Gly Thr Val Asr Asp Arg Leu Asn Trp Ala Phe Asn Leu Tyr Asp Leu Asn Lys 185 Asp Gly Cys Ile Thr Lys Glu Glu Met Let Asp Ile Met Lys Ser Ilc 200 Tyr Ask Met Met Gly Lys Tyr Thr Tyr Pro Ala Leu Arg Glu Glu Ala 215 Pro Ard Glu His Val Glu Ser Phe Phe Gln Lys Met Asp Arg Asn Lys 230 Asp Gly Val Val Thr Ile Glu Glu Phe Ile Glu Ser Cys Gln Lys Asp 245 250 255 Glu Asr lle Met Arg Ser Met Gln Leu Fhe Asp Ash Val Ile 260 265 270

<210> .5

<211> 1247

<212> FNA

<213> Eattus sp.

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			aga Ang													193
			tti Phe													241
			cag Gln	-	-						211			2-	-	289
_		_	gg0 Gly 100					-		-			-			337
			aag Lys													385
			gst Ala													433
			agt Ser													481
			ata Ile													529
			gad Asp 150													577
			tat Tyr													62.5
			oda Pro													673
			gan Asp													

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4212 - PRT

3213 · Rattus sp.

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Cys Sly Pro Gln Ala Leu Pro Ser Val Ser Glu Thr Leu Ala Ala Pro 35 43 43

Ala Ser Leu Arg Pro His Arg Pro Arg Pro Leu Asp Pro Asp Ser Val 50 55 60

Glu Asp Glu Phe Glu Leu Ser Thr Val Cya His Arg Pro Glu Gly Leu 65 70 75 80

Glu Gln Leu Gln Glu Gln Thr Lys Phe Thr Arg Arg Glu Leu Gln Val 85 90 95

Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Ile Val Asn Glu 100 105 110

Glu Ash Fhe Lys Gln lie Tyr Ser Gln Fhe Fhe Pro Gln Gly Axp Joh 115 - 125

Ser Asn Tyr Ala Thr Phe Leu Phe Asn Ala Fhe Asp Thr Asn His Asp 130 135 140

Gly Ser Val Ser Phe Glu Asp Fhe Val Ala Gly Leu Ser Val Ile Leu 148 - 150 - 165

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Lys Jer II: Tyr Asp Met Met Bly Lys Dir The Tyr Er Ala Is : As r

Gla Gla Ala 210	a Pro Arg Glu	. His Val Glu 215	Ser Fhe Fh 22		Met Asp
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Gin Gin Asp	Glu Asn Ile 245	Met Arg Ser	Met Gln Le 250	-	Asn Val 255
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anat satgga	dadooggogo o	coetescae ggd	cccaggog gg	agogagaa go	ooggagacc 180
		aag gag agt Lys Glu Ser		-	-
		ott acg ggc Leu Thr Gly 25			-
	. Lys Gln Arg	tto oto aag Phe Leu Lys 40			
		agt gaa aca Ser Glu Thr 55		a Pro Ala S	
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gaca	aacc	ta a	iccct	cctc	at ac	ceege	ggtat	gto	octea	itee	taco	ctgta	acc d	etggg	gggctg	1110
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+11.11.+ 270

-0.12: PE.T

+1.130 Mus musculus

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Met Ard Gly Gln Gly Arg Lys Glu Ser Leu Ser Glu Ser Arg Asp Leu

1 10 15

Asp Gly Ser Tyr Asp Gln Leu Thr G.y His Pro Pro Gly Pro Ser Lys

Lys Ala Leu Lys Gl<br/>n Arg Phe Leu Lys Leu Leu Pro Cys Cys Gly Pro 35 40 45

Gin Ala Leu Pro Ser Val Ser Glu Thr Leu Ala Ala Pro Ala Ser Leu 50 55 60

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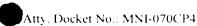
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Gln Glu Gln Thr Lys Phe Thr Arg Arg Glu Leu Gln Val Leu Tyr Arg 100 105 110

Gly Phe Lys Asn Glu Cys Pro Ser Gly Ile Val Asn Glu Glu Asn Fhe

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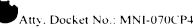


Ile Asp Asp Arg Leu Ash Trp Ala The Ash Leu Tyr Asp Leu Ash Lys Asp Gly Cys Ile Thr Lys Glu Glu Met Leu Asp Ile Met Lys Ser Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Ala Leu Arg Glu Glu Ala Pro Arg Glu His Val Glu Ser Phe Phe Gln Lys Met Asp Arg Asn Lys Asp Gly Val Val Thr Ile Glu Glu Fhe Ile Glu Ser Cys Gln Gln Asp Glu Ash Ile Met Arg Ser Met Gln Leu Phe Asp Ash Val Ile 265 00100-19 H011H 1955 HIII21 DNA HU130 Homo sapiens -1112 C 1--3210 CDS +0.1221+(207)...(962)-:400> 19 cheacetget geetajtøtt egeteteetg etdeaggade teegggtaga detdagades 60 eqqqeecatt cecagaetea geeteageee ggaetteece ageeeegaea geacagtagg 120 ougocagogo geycegtoto ageocetat deeggeeace eggeocece teecaeggee 180 enggegggag eggggegeeg ggggee atg egg gge eag gge ege aag gag agt Met Arg Gly Gln Gly Arg Lys Glu Ser ttg ted gat ted ega gad etg gad ggd ted tad gad dag etd adg ggd 281 Leu Ser Asp Ser Arg Asp Leu Asp Gly Ser Tyr Asp Gln Leu Thr Gly 242 तत्त तत्त्व पूर्व 272 abt daw (aa þið 21) ad शतक्ष त्रक ता तत्त्व (त्रक्ष His Fro Fro Gly Fro Thr Lys Lys Ala Leu Lys Gln Arg Fhe Leu Lys ctg ctg dog tgd tgd ggg ddd daa gdd dig ddd tda gid agi gaa aas Leu Leu Pro Cys Cys Gly Pro Gln Ala Leu Pro Ser Val Ser Glu Asn r O ago gong gan gat gaa too gaa too too are gong too har his his are

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	tac Ser															6.7
	gat Asp															665
	ott Leu 185															713
	jac Asp															761
	atg Met															809
	ogg Arg															857
	gar Asp															905
	tgt Oys 235		_	_				_			_	_				953
	gtc Val		tago	22000	cag ç	gagaç	<b>3</b> 333	gt da	agtgt	itte	e tgç	aaad	gado			1002
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KU12> PRT

40:13> Homo sapiens

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G.n Ala Leu Pro Ser Val Ser Glu Asn Ser Val Asp Asp Glu Phe Glu 50 60

Lou Ser Thr Val Cys His Arg Pro Glu Gly Leu Glu Gln Leu Glr Glu +5 70 75 80

Gin Thr Lys Phe Thr Arg Lys Glu Leu Gln Val Leu Tyr Arg Gly Phe 85 90 95

Lys Asn Glu Cys Pro Ser Gly Ile Val Asn Glu Glu Asn Phe Lys Gln  $100 \,$   $105 \,$   $110 \,$ 

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Phe Leu the Ash Ala Phe Asp Thr Ash His Asp Gly Ser Val Ser Phe 130 140

Glu Asp Phe Val Ala Gly Leu Ser Val Ile Leu Arg Gly Thr Val Asp 145 155 160

Asp Arg Leu Ash Trp Ala Phe Ash Leu Tyr Asp Leu Ash Lys Asp Gly 165 170

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	r Asp Leu					gag gaa atg 31u 31u Met	762
						tas asa tas Tyr Inr Tyr	810
						ago tto tto Ser Phe Phe 215	853
						gag gaa tto Glu Glu Phe 230	906
				Ile Met	Arg Ser N	atg dag dtd Met Gln Leu 245	954
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acctgtaccc	tgggggct	gt agggaf	ttcaa ta	teetgagg	cttcagta	gt coagatocot	1129
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KANIZO PRT

KL130 Rattus sp.

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Lys Ala Leu Lys Glr. Arg Phe Leu Lys Leu Leu Pro Cys Cys Gly Pro 35 - 40 - 45

G n Ala Leu Pro Ser Val Ser Glu Asn Ser Val Glu Asp Glu Phe Glu 50 55 60

Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu Glu Gl<br/>n Leu Gl<br/>r Glu 70 75 80

G:n Thr Lys Phe Thr Arg Arg Glu Leu Gln Val Leu Tyr Arg Gly Phe 85 90 95

Lys Asn Glu Cys Pro Ser Gly Ile Val Asn Glu Glu Asn Phe Lys Gln
100 105 110

Ile Tyr Ser Gln Pho Fhe Pro Gln Gly Asp Ser Ser Ash Tyr Ala Thr 115

The Let The Ash Ala The Asp Thr Ash His Asp Gly Ser Val Ser Phe 130 140

Glu Asp Phe Val Ala Gly Leu Ser Val Ile Leu Arg Gly Thr Ile Asp 145 150 155 163

Asp Arg Leu Sor Trp Ala Phe Ash Leu Tyr Ash Leu Air Linn Air Will

The Mark Roy Type Type The Type Res Alla Tell And Holl Alla File Ard

Glu His Val Glu Ser Fhe Fhe Gin Lys Met Asp Arg Asn Lys Asp Gly Val Val Thr Ile Glu Glu Fhe Ile Glu Ser Cys Gln Gln Asp Glu Asn Ile Met Arg Ser Met Gln Leu Phe Asp Asn Val Ile 245 <210≥ 23 <211> 1859 4212> DNA 4213> Homo sapiens -1220> H221> CDS  $\pm 222 > (207) \dots (866)$ +1400 > 25streadelyst geotagitgit beeteteetg steeaggase teegggiaga ceteagasee 60 agggodatt occagabtea geotbageed ggaetteese ageodegada geabagtagg 120 -cagobaggag gogoogtigtig agogoobtat ocogyboabo baggooboo toobacaggoo 180 ngggogggag oggggogoog ggggoo atg ogg ggo bag ggo ogo aag gag agt Met Arg Gly Gln Gly Arg Lys Glu Ser ity too gat too oga gab otg gab ggb too tab gab bag btb abg gab 281 heu Ser Asp Ber Arg Asp Leu Asp Gly Ser Tyr Asp Gln Leu Thr Asp 15 ago gig gae gat gaa tit gaa tig too acc gig tgi cac egg col gag 329 Wer Val Asp Asp Glu Phe Glu Leu Ser Thr Val Cys His Arg Pro Glu 30 3.5 377 ggt ctg gag dag dtg dag gag daa add aaa ttd adg dgd aaq gag ttg Cly Leu Glu Gln Leu Gln Glu Gln Thr Lys Phe Thr Arg Lys Glu Leu 50 45 had give only take odd gigo into aad aad gaa nigh bou ago liga ann gib Gln Val Leu Tyr Arg Gly Phe Lys Ash Glu Cys Pro Ser Gly Ile Val war gay gay aac tio aag cag att tac too cag tio tit cot caa gga Asn Glu Glu Asn Phe Lys Gln Ile Tyr Ser Gln Phe Phe Pro Gln Gly gao too ago abo taf goo abt tit bir tib aat griitti jab air aab Asy Ser Ser Thr Tyr Ala Thr Fhe Leu Fhe Ash Ala Phe Asp Thr Ash

and our ordered and the distribution and our seasons for the second of  $\gamma \to 10^\circ$  for Eq. (4). The Mail Asy Asy And 180 Asy. The Ale the Am. (4).

tat gab ott aac aag gab ggb tgb atc acc aag gag gaa atg bit gab - é Tyr Asp Leu Ash Lys Asp Gly Cys Ile Thr Lys Glu Glu Met Leu Asp 140 - 145 - 150	δå
ato atg aag too atc tat gac atg atg ggc aag tac acg tac cet gca 7  Ile Met Lys Ser Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Ala 155 160 165	13
ctc ogg gag gag god oca agg gaa dad gtg gag agd ttd ttd dag aag 7 Leu Arg Glu Glu Ala Pro Arg Glu His Val Glu Ser Phe Phe Gln Lys 170 175 185	÷1
atg gac aga aac aag gat ggt gtg gtg acc att gag gaa tto att gag 8 Met Asp Arg Ash Lys Asp 3ly Val Val Thr Ile 3lu 3lu Phe Ile 3lu 190 195 200	)9
tot tgt baa aag gat gag aac ato atg agg top atg bag oto tit gab 8 Ser Cys 3ln Lys Asp Glu Asn Ile Met Arg 3er Met Gln Leu Phe Asp 205 210 215	57
aat gto ato tagoobboag gagaggggt dagtgtttoo tggggggadd 99 Asn Val Ile 220	Пő
atgototaac betagteeag geggaeetea beettetott bebaggteta teeteateet 9	1,15
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dagaagaddt tytotootta gaaatgoodd agaa4thtto barabronin inggtut his 19	E ESE
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tgcatgtgtt ggtggtggtt gtggtggggg aatgtggatg ggggatgtop tggctgatge 16	686
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<213> Homo sapiens

<4005 24

Met Arg Gly Gl<br/>n Gly Arg Lys Glu Ser Leu Ser Asp Ser Arg Asp Leu <br/> 1 - 10 - 16

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Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu Glu Gln Glu 35 40 45

Gin Thr Lys Phe Thr Arg Lys Glu Leu Gln Val Leu Tyr Arg Gly Phe 50 60

Lys Ash Glu Cys Pro Ser Gly Ile Val Ash Glu Glu Ash Phe Lys Gln 65 70 75 80

Ile Tyr Ser Gln Phe Phe Pro Gln Gly Asp Ser Ser Thr Tyr Ala Thr 85 90 95

Phe Leu Phe Ash Ala Phe Asp Thr Ash His Asp Gly Ser Val Ser Phe 100 105 110

Giu Asp Phe Val Ala Gly Leu Ser Val Ile Leu Arg G.y Thr Val Asp 115 120 135

Asp Arg Leu Ash Trp Ala Phe Ash Leu Tyr Asp Leu Ash Lys Asp Gly 130 140

Cys lle Thr Lys Glu Glu Met Leu Asp Ile Met Lys Ser Ile Tyr Asp 145 - 150 - 155 - 160

Met Met Gly Lys Tyr Thr Tyr Pro Ala Leu Arg Glu Glu Ala Pro Arg 165 170 175

Glu His Val Glu Ser Phe Phe Glr. Lys Met Asp Arg Ash Lys Asp Gly  $$180\$ 

Val Val Thr Ile Glu Glu Phe Ile Glu Ser Cys Gln Lys Asp Glu Asn 195 200 205

Ile Met Arg Ser Met Gln Leu Phe Asp Asn Vai Ile 210 215 200

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<211> 2191

<212> DNA

<213> Simian sp.

. 220.

<221> CDS

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														gag Glu		219
	Phe													gag Glu		267
														otg Leu 60		315
					_	_	-	-						gag Glu		363
														ago Ser		411.
														gly ggc		459
														ogg Arg		5(7
														ctc Leu 140		555
														aag Lys		603
			Met	Met	ĞĨу	Lys	Tyr		$T_{A}'r$	Pro	Ala		Arg	gag Glu		651
														aga Arg		699
														caa Gln		747
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<210> 26
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Met Arg Gly Gln Gly Arg Lys Glu Ser Leu Ser Asp Ser Arg Asp Leu 1 1 1: 1:

Asp Slv Ser Tur Air Sir Ned The Air (18 th 19 th 19 th 19

<sup>\* 211 1 .</sup> S. 2. 2. 3.

<sup>+212+</sup> ERT

<sup>&</sup>lt;2152 Simian sp.

<sup>&</sup>lt;400> 26

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Lys Asn Glu Cys Pro Ser Gly Ile Val Asn Glu Glu Asn Phe Lys Gln 65 75 90

Lie Tyr Ser Gln Phe Phe Pro Gln Gly Asp Ser Ser Thr Tyr Ala Thr 85 90 95
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Phe Leu Phe Asn Ala Phe Asp Thr Asn His Asp Gly Ser Val Ser Phe 100 105 110

Glu Asp Phe Val Ala Gly Leu Ser Val Ile Leu Arg Gly Thr Val Asp 115 120 125

Asp Arg Leu Ash Trp Ala Phe Ash Leu Tyr Asp Leu Ash Lys Asp Gly 13: 140

Cys :le Thr Lys Glu Glu Met Leu Asp Ile Met Lys Ser Ile Tyr Asp 145 \$150\$

Met Met Gly Lys Tyr Thr Tyr Pro Ala Leu Arg Glu Glu Ala Pro Arg 165 170 175

Glu His Val Glu Asn Phe Phe Glr. Lys Met Asp Arg Asn Lys Asp Gly  $180 \,$   $185 \,$   $190 \,$ 

Val Val Thr Ile Glu Glu Phe Ile Glu Ser Cys Gl<br/>n Lys Asp Glu As<br/>n 195 200 205

Ile Met Arg Ser Met Gln Leu Phe Asp Asn Val Ile 215 220

HL10H 27

·:.11: 2057

-0.120 DNA

 $\pm 2130$  Simian sp.

-12/2 (0) -

-1221: CDS

·m220 (208)..(963)

-14001-27

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totoraaaga aaagoottgo bagooobtab torbijibibi baalibbaad agitbijstipb 1.7

googlobadgg ggogitatat gagodininia tintaginan inggiginini otincaloggo li

usaggoggga gogggggoo gggggoo atg ogg ggo daa ggo aga aag gag agt 234 Met Arg Gly Gln Gly Arg Lys Glu Ser 1

tty the gas the ega gat etg gas ggo ted tat gad eag oft acg gge - 2%/ Beu Ser Glu Ser Ard Ash Ivo Avr Glu Gu Tuv tu Glu Gu T

Leu	Leu	Pro	Cys 45	Cys	Gly	Pro	Gln	Ala 50	Leu	Pro	Ser	Väl	Ser 55	Glu	Asn	
							tta Leu 65									426
							cag Gln									474
							aag Lys									522
							att Ile									57)
							ttt Phe									610
							gag Glu 145									666
						-	gat Asp	-	_	_		_				714
							tgt Cys									762
							atg Met									810
	Ārģ	Glu	Glu	Ala	$\mathtt{Prc}$	Arg	gaa Glu	$H_{\perp}s$	Val	Glu	3er	Phe	Phe	Gln		858
atg Met							qtq Val 225									9°6
tat Ser							atc Ile									954
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√210> 28

4211: 252

::212: PET

<:213: Simian sp.</pre>

-:400> 28

Met Arg Gly Gln Giy Arg Lys Glu Ser Leu Ser Glu Ser Arg Asp Leu

1 5 10 15

Asp Gly Ser Tyr Asp Gln Leu Thr Gly His Pro Pro Gly Pro Ser Lys 25 30

Lys Ala Leu Lys Gin Arg Phe Leu Lys Leu Leu Fro Cys Cys Gly Fro 31 45

Gln Ala Leu Pro Ser Val Ser Glu Ash Ser Val Glu Asp Glu Fhe Glu 50 60

Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu Glu Gl<br/>n Leu Gl<br/>n Glu 80 75 80

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31u 145	Asp	Phe	Val	Ala	31y 150	Leu	Ser	Val	Ile	Le·u 155	Arg	ЗГу	Thr	Ile	Asp 160	
Asp	Arg	Led	Ser	Trp 165	Ala	Phe	Asn	Leu	Tyr 170	Asp	Leu	Asn	Lys	Asp 175	Gly	
Jys	Ile	Thr	Lys 180	Glu	31 1	Met	Leu	Asp 185	Ile	Me∙t	Lys	Ser	Ile 190	Tyr	Asp	
Иet	Met	31y 195	Lys	Tyr	Гhг	Tyr	Pro 200	Ala	Leu	Arg	Glu	Glu 205	Alá	Pro	Arg	
3.u	His .10	Val	Glu	Ser	Phe	Phe 215	Gln	Lys	Met.	Аεр	Arg 220	Asn	Lys	Asp	Gly	
Val 225	Val	Thr	Ile	Glu	Glu 230	Phe	Ile	Glu	Ser	Cys 235	Gln	Gln	Asp	Glu	Asn 240	
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						Arg										40
	Ser	Leu	Tyr	Gln	Leu	gta Val	Thr	Gly	Ser	Leu		Pro	Asp			96
gag Hlu	gat. Asp	gaq Glu 35	ttt Pke	daa Ald	tta Leu	too Ser	aog Thr 40	gtg Val	tyt Cyr	sas His	nga Ang	33t Fr. 45	gag Glu	ајс 31 <del>у</del>	inty Dema	7.4.
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	gac Asp							384	

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ogg ggg ac Arg Gly Th 130							
oto aac aa Leo Asn Ly 145						Āsp Ile Me	
aag too at Lys Ser Il							
gag gag go Glu Slu Al							
agg aac aa Arg Asn Ly 19	s Asp Gly	Val Val T					
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ato tagoto Ile 225	occa ggga	gagggg tta	gtgtgtc	stagggt	gad dagg	otgtag	725
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4210 - 30

4211 · 225

4012 + PRT

HC13 · Rattus sp.

4400 - 30

Met Asr. His Cys Pro Arg Arg Cys Arg Ser Pro Leu Gly Gln Ala Ala 1 5 10 15

Arg Ser Leu Tyr Gln Leu Val Thr Gly Ser Leu Ser Pro Asp Ser Val

Glu Asp Glu Phe Glu Leu Ser Thr Val Cys His Arg Pro Glu Gly Leu 35 40 45

Glu Gln Leu Gln Glu Gln Thr Lys Phe Thr Arg Arg Glu Leu Gln Val 50 60

Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Ile Val Asn Glu +5 75 30

Giu Asn Phe Lys Gln Ile Tyr Ser Gln Phe Pro Gln Gly Asp Ser 85 90 95

Ger Asn Tyr Ala Thr Phe Leu Phe Asn Ala Phe Asp Thr Asn His Asp  $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110$ 

Gly Ser Val Ser Phe Glu Asp Phe Val Ala Gly Leu Ser Val Ile Leu 115 120 125

Ang Gly Thr Ile Asp Amp Amp Leu Ser Trp Ala Ene Ash Leu Tyr Asp 130 139 140

Leu Asn Lys Asp Gly Cys Ile Thr Lys Glu Glu Met Leu Asp Ile Met 145 - 150 - 155 - 160

Lys Ser Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Ala Leu Arg 165 173 175

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atg	0:- 3° cag Gln	ccg														48
	gas Asp															96
	agg Arg															144
	tgg Trp 50		_		_		_		_			-	_	_	_	192
	gag Glu															240
	ctg Leu	_	-	_		_			_	_		_	_			288
	agg Arg															336
aco Thr	tto Phe	aaa Lys 115	ota Leu	att Ile	tac Tyr	gcg Ala	caq Gln 120	tta Ehr	tta Iho	act Fro	sag Glm	gda Glγ 105	qa* As;	don Ala	acc Thr	344
	tat Tyr 130														gly gga	432
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. Casadan, ahambahs	tim ratt sam rasgnam sg	r. pad. dila arabad. dili	1000
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<210 → 32

0211 - 206

<212 · PRT

<213 · Homo sapiens

<400 · 32

Met Glr. Pro Ala Lys Glu Val Thr Lys Ala Ser Asp Gly Ser Leu Leu 1 1 5 15

Gly Asp Leu Gly His Thr Pro Leu Ser Lys Lys Glu Gly Ile Lys Trp

Gin Arg Pro Arg Leu Ser Arg Gln Ala Leu Met Arg Cys Cys Leu Val

Lys Trp Ile Leu Ser Ser Thr Ala Fro Gin Gly Ser Asp Ser Ser Asp

Ser Giu Leu Giu Leu Ser Thr Val Arg His Gin Pro Glu Gly Leu Asp 65 70 75 80

Gln Leu Gln Ala Gln Thr Lys Phe Thr Lys Lys Giu Leu Gln Ser Leu 85 95

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The Typ A.a.H. where less the Ash A.a. the Asp Ala Asp Bly Ash Bly 187

Ala 145	Ile	His	Pha	Glu	Asp 150	Fhe	Val	Val	Gly	Leu 185	Ser	ile	Leu	Leu	Arj 160	
Эгу	Thr	Vāl	His	Glu 165	Lys	Leu	Lys	Trp	Ala 170	Phe	Asrı	Leu	Tyr	Asp 175	Ile	
Asn	Lys	Asp	Gl; 18:	Tyr	Ile	Thr	Lys	Glu 185	Slu	Met	Leu	Ala	Ile 190	Met	Lys	
3er	Il€	Tyr 195	Asp	Met	Met	Gly	Arg 200	His	Thr	Tyr	Pro	Ile 205	Leu	Arg	Glu	
Азр	Ala 210	Pro	Ala	Glu	His	Val 215	Glu	Arg	Phe	Phe	Glu 220	Lys	Met	Asp	Arg	
Asn 2.15	31r.	Asp	Gly	Val	Val 230	Thr	Ile	Glu	Glu	Phe 235	Leu	Glu	Ala	Cys	Glr 240	
5ys	Asp	Glu	Asn	Ile 245	Met	Ser	Ser	Met	Gln 250	Leu	Phe	Glu	Asn	Val 255	Il∈	
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442 gaagootota tgaqaaacat ttttotaata tatttgcaaa aagtg -:210> 34 <2115 109 <212 + PRT <213 - Rattus sp. <400 + 34 Phe Glu Asp Phe Val Val Gly Leu Ser Ile Leu Leu Arg Gly Thr Val His Glu Lys Leu Lys Trp Ala Phe Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr lle Thr Lys Glu Glu Met Leu Ala Ile Met Lys Ser Ile Tyr 40 Asp Met Met Gly Arg His Thr Tyr Pro Ilo Lou Arg Glu Asp Ala Pro Leu Glu His Val Glu Arg Phe Phe Glr Lys Met Asp Arg Asn Gln Asp 70 Gly Val Val Thr Ile Asp Glu Phe Leu Glu Thr Cys Gln Lys Asp Glu 3.5 9) Asn lle Met Ser Ser Met Gln Leu Phe Glu Asn Val Ile 100 105 <2100 35 <211: 2644 K212H DNA <2130 Mus musculus K2201-<221: CDS  $\pm (222) \cdot (49) \cdot \cdot \cdot (816)$ <4001 35 spygotiquaa agogggaaga ttagtgasgg tisootticag bagcagag atg cag agg -57Met Gln Arg acc had gaa goo gtg aag goa toa gat ggo aac ctd otg gga gat cot Thr Lys Glu Ala Val Lys Ala Ser Asp Gly Asn Leu Leu Gly Asp Pro हार पहले करेंगे उत्ते तरह तरह बन्ना बन्ना मुन्ने अहर करण बन्ने राह्म हाने वाह तरह Gly Arg Tie Pro Leu Ser Lys Arg Glu Ser Ile Lys Trp Gln Arg Pro om dich helder od mog processa izgan diden standam nadmonage og anciade od da alom gold 1944. De movembre militaria (a. 1846). Men over i Alemovie nadmonale i Alemovie nadmonale od 1971. De mo

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					tto Phe											441
					jod Ala											489
					gtt Val											537
					tgg Trp											585
					gag Glu 135											633
					cac His											681
					agg Arg											729
- 1					gat Asp	- 3	>	_					_	_	- 1	777
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<sup>\* 210 \* 36</sup> 

<sup>+211 + 256</sup> 

<sup>.</sup> 

Gly Asp Pro Gly Arg Ile Fro Leu Ser Lys Arg Glu Ser Ile Lys Trp 31n Arg Pro Arg Fhe Thr Arg Gin Ala Leu Met Arg Tys Tys Leu Ile Lys Trp Ile Leu Ser Ser Ala Ala Pro Gln Gly Ser Asp Ser Ser Asp Ser Glu Leu Glu Leu Ser Thr Val Arg His Gln Pro Glu Gly Leu Asp Gin Leu Gin Ala Gin Thr Lys Phe Thr Lys Lys Giu Leu Gin Ser Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Thr Gly Leu Val Asp Glu Asp Thr Phe Lys Leu Ile Tyr Ser Gin Phe Phe Pro Gin Gly Asp Ala Thr Thr Tyr Ala His Phe Leu Phe Ash Ala Phe Asp Ala Asp Gly Ash Gly 130 135 Ala Ile His Phe Glu Asp Phe Val Val Gly Leu Ser Ile Leu Leu Arg 155 Gly Thr Val His Glu Lys Leu Lys Trp Ala Phe Asn Leu Tyr Asp Ile 165 170 Asr. Lys Asp Gly Cys Ile Thr Lys Glu Glu Met Leu Ala Ile Met Lys 185 Sor lle Tyr Asp Met Met Gly Arg His Thr Tyr Pro Ile Leu Arg Glu 200 Asp Ala Pro Leu Glu His Val Glu Arg Phe Phe Gln Lys Met Asp Arg 210 215 Asn Glr. Asp Gly Val Val Thr Ile Asp Glu Phe Leu Glu Thr Cys Glr. 230 235 Lys Asp Glu Ash Ile Met Ash Ser Met Gln Leu Phe Glu Ash Val Ile 245 250 255

<0111> 531

<B12> BNA

<213> Homo sapiens

< 2200 -

<221> CDS

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														tet Ser 15		4 5
														add Lys		96
														tot Ser		144
														gto Val		192
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														aga Arg 95		288
														gag Glu		336
tgag	agga	aaa a	aggg	ggaaa	aa ta	atoco	catto	c tat	gaga	agc	cada	atcat	iat (	gtata	atttca	396
tact	gato	eat t	acca	agata	ag ga	aatat	aato	e agt	atot	gtg	gact	ittga	at :	atatç	gtggca	456
cacc	cate	gat ç	ggcat	acto	gt aa	attgo	cccat	taa	acaa	ana	gttt	ittga	aga a	aaaaa	aaaaa	516
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Fhe the Leu Thr Leu Pro Ser His Ash Ser Gln Ard Ser Ile Glu Lys 105 <2105 39 42115 2176 <212> DNA <213> Homo sapiens (220> <221> CDS <222> (2)..(124) <400> 39 t gam agg tto ito gag ama atg gmo ogg mad dag gmt ggg gtm gig mod 49 Glu Arg Phe Phe Glu Lys Met Asp Arg Asn Gln Asp Gly Val Val Thr att gam gag tto otg gag god tgt dag amg gat gag mad mtd mtg mgd Ile Glu Glu Phe Leu Glu Ala Dys Gln Tys Asp Glu Ash Ilo Met Ser 20 tice atg dag otg tit gag aat git atc taggadacgt ccaaaggagt 1:44 Ser Met Gln Leu Phe Glu Ash Val Ile 35 40 goatggoodo agosabotos apposedaga adoctocato etgeologias pageetesia 194 qaaactttta aaaaatagat ttypaaaaaay tgaacagatt qotacacaca bacacacaba 164  $\phi$ adadadada badadadada dadagddatt datetggget ggdagagggg adagagttua 5.34qggaggggot gagtotqgot aggggoogag tooaggagoo coagcoagoo ottoocaggo1844cagogaggog aggotycoto tgygtgagtg gotgacagag caggtotyca ggocaccago 444 tgotggatgt caccaagaag gggetegagt geocetgeag gggagggtes aateteeggt 504 gtgageceae etegtbeegt tetecattet getttettge cacacagtgg geoggecea 5.64ggotocootg gtotoctoco ogtagocact cictgocoac tacctatget tetagaaage 624 ocutranoto aggacoccag agggaccago tyyggggcag gggggagagg gggtaatgga 684 agriculation gradition graduation contigging corragation interests 144 captyacoty gaagagotyg gtaccaggod acccaptyty gygdaagoot gaytyytyay (04 gggorastgg geoceatiet eestesatgg baggaaggeg ggggatitea agtitaggga  $6\pi4$ tigaqingig giqgaqaan itqaqgybabi kikitqorayo ibkakaqqyi qqqatyaybo 924 tigt bott groving agt potigg it to agree grafic out to grafic the color

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m coto}_{1}$ gagga aaggoagtat ggoggaggoo atgggggood otoggoatto abacacagoo 17.64tygo:tooco tycggagoty batygabyco tygotobagy btobayynty abtygygydb 1824 totqostoda ggagggbato agetttebet ggetraggga tetteteet eebeteacee 1884 goty coago octoccaget gytyteasto typetetaay godaaggest caggagagsa 1944 toachaceae acceptioning goettiggest tiggigesaga stiggistigeae ageocaacea 2004m gagagagetet geotoccaeg etgggacaca gaseggeegs atgtetgeat ggeagaageg 2064teteketigg ceaeggeetg ggagggtygt tuutgttett ageatesaet aatatteagt  $2124\,$ 2176

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<12110 41</pre>

-02120- PRT

+1213: Homo sapiens

-140CH 40

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I.e Glu Glu Phe Leu Glu Ala Cys Gln Lys Asp Glu Ash Ile Met Cer 20

owr Met Glr. Led the Glu Asn Val Ile 35 40

<01100 41</pre>

HE112 2057

<212> DNA

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<sup>-41</sup> 

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cca	ggeg.	gga (	gagg	ggeg.	ad gi	gggg		_		_		-	_		ag agt lu Ser	234
							gac Asp									282
							aaa Lys									330
							caa 31n									378
							tta Leu 65									426
							cag Gln									474
							aag Lys									522
							att Ile									570
							t:t Phe									618
							gag G.u 145									666
							aat Asp									77.4
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tot tgt daa dag gad gag aad atd atg agg tod atg dag otd toa Ser Cys Gln Gln Asp Glu Asn Ile Met Arg Ser Met Gln Leu Ser 235 240 245	
ett ete aac tyatacetag tyctgagyac acceetyyty tagygaccaa Leu Leu Asn 250	1003
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tggtgettte essateesta atetettaga titteeteaa gaeteestte teaga	agaada 1123
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oottagoaat gtoocagaaa ttoacogtac acttotcagt gtottaggag ggood	ogggat 1423
spagatgist ggittoatoos igaatostot operioritot igotogiatg gigge	gagtgg 1483
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catgorigorig etocicatta acaaacetge trigiteteete ergegeeset tetea	agtoag 1903
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<400> 43 Glu Maa Xaa Xaa Xaa Xaa Xaa Xaa Asp Lys Asp Gly Asp Gly Xaa 10 Xaa Xaa Xaa Glu Phe Xaa Xaa Xaa 20 <210 - 44 < 211 + 40 $\pm ...12 \pm ...$ DNA 3.13 - Fattus sp. -C101- 44 teatacquet cactataggg actggccatc ctgctctcag 40 4.110 45  $\pm 0.011 \pm 40$ -1.11.1 - DNA Hulto Fattus sp. -140 + - 45  ${\tt a}^*{\tt time}{\tt cost}{\tt c}$  actaeaggga cactactgtt taageteaag 40  $\leq 1.1 \pm 4.6$  $0..11 \cdot 40$ 4..17 - DNA C.1: Fattus sp. ·::00: 46 40 that acquet cactataggg cacctcccct coggetgtto -1210 - 47 HU111 40 -:::1: :- ENA H2188 Rattus sp. <400 € 47 attaaccoto actaaaggga gagcagcagc atggcagggt 40 421: 44 4211.4 2413 4211 - DNA <215> Simian sp. <22205 kuzik dog kopok nowek, nawak арат са роат од арафа тароа стота ато остарат стота в состава состава состава и се бога ба состава и ба состав 

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											tgt Cys					339
											gaa Glu					387
											act Pro			Leu		435
	_	_	_								gag Olu		Gln			483
	_					_	_		_		gtt Val 85			_	_	531
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Val Arg His Arg Pro Glu Ala Leu Glu Leu Leu Glu Ala Gln Ser Lys 50 60

Phe Thr Lys Lys Glu Led Gln Ile Leu Tyr Arg Gly Phe Lys Ash Glu -65 70 75 80

Cys Pro Ser Gly Val Val Ash Glu Glu Thr Phe Lys Glu Ile Tyr Ser 35 90 95

Gln Phe Phe Pro Gln Gly Asp Ser Thr Thr Tyr Ala His Phe Leu Phe 100 100 110

Ash Ala Phe Asp Thr Asp His Ash Gly Ala Val Ser She Glu Asp Phe 115 120 125

Ite Lys Gly Leu Ser Ite Leu Leu Arg Gly Thr Val Glr Glu Lys Leu 130 135 140

Ash Trp Ala Phe Ash Leu Tyr Asp Ile Ash Lys Asp Gly Tyr Ile Thr 145 150 155 160

Lys Glu Glu Met Leu Asp Ile Met Lys Ala Ile Tyr Asp Met Met Gly 165 170 175

Lys Cys Thr Tyr Pro Val Leu Lys 31u Asp Ala Pro Arg Gln His Val 180 185 190

Glu Thr Phe Phe Gln Lys Met Asp Lys Asn Lys Asp Gly Val Val Thr 195 - 200 - 205

Ile Asp Glu Phe Ile Glu Ser Cys Gln Lys Asp Glu Asn Ile Met Arg
210 215 220

Ser Met Gln Leu Phe Glu Asn Val Ile 225 230

+110+ 60

F211 × 1591

<2.12> DNA

<213> Simian sp.

<220>

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ett etg gaa god ( Leu Leu Glu Ala ( 6)				183
tac aga gga ttt Tyr Arg Gly Phe : 75				31
acc ttc aaa gag . Thr Phe Lys Glu 90			-/	79
aba tat gba bat : Thr Tyr Ala His :		e Asp Thr Asp		527
got gtg agt ttd: Ala Val Ser Phe ( 125	 			575
ggg ada gta daa ( Gly Thr Val Gln ( 140			2	723
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gat goa ooc aga ( Asp Ala Ern Arg (		e Fhe Glh Ala	_	367

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taatgettaa taacaagtaa tootaacage attaaagge aaatetgtee tetitoocii 1023 gasttootta sagcatgtti atattacaag ceattraggg acaaagaaa ottgactase 1083 ceactgieta staggaacaa acaaacagca agcaasatto actitigaaag caccagtggi 1143 tecattacat tgacaactae taccaagatt cagtagaaaa taagtgetca acaactaate 1203 cagattacaa tatgatttag tgcatcataa aattooaaca attoagatta tititaatea 1263 totougecac aactgtaaag tigocacatt actaaagaca cacasategi coctgittig 1323 tagaaatato acaaagaca agaggetaca gaaggaggaa attigocaati gictitigaaa 1383 caataaatca ggtatcatt otggigtaga gataggatgi tgaaagetge cotgetatca 1443 caagtgaag aattaagagi agtacaatac atgtacactg aaattigoca togogtiitt 1503 gigtaaacto aatgtgcaca tittigtatti caaaaagaaa aaataaaago aaaataaaat 1563 gitwawaamw mwaaasaaaa aaaaaaaa

-:400:- 51

Met Leu Thr Leu Glu Trp Glu Ser Glu Gly Leu Gln Thr Val Gly Ile 1 5 10 15

Val Val Ile Ile Cys Ala Ser Leu Lys Leu Leu His Leu Leu Gly Leu 20 25 30

Ile Asp Phe Ser Glu Asp Ser Val Glu Asp Glu Leu Glu Met Ala Thr 35 40 45

Val Arg His Arg Pro Glu Ala Leu Glu Leu Glu Ala Gln Ser Lys 50 55 60

Phe Thr Lys Lys Giu Leu Gin Ile Leu Tyr Arg Gly Phe Lys Asn Glu -65 - 70 - 75 - 40

Tyw Pro Jer Hly Mai Mai Aen Glo Rio The the Lye His lie Tyr Jer 95

Gln Phe Phe Fro Gln Gly Asp Ser Thr Thr Tyr Ala His Phe Leu Phe 100 105 110

Ash Ala Phe Asp Thr Asp His Ash Gly Ala Val Der Phe Glu Asp Phe 118 120 126

<sup>-12100 51</sup> 

<sup>-12111- 233</sup> 

H2121 PRT

 $<sup>\</sup>pm 2130$  Simian sp.

 $<sup>\</sup>frac{1}{14} \left( \frac{1}{14} + \frac{1}{14}$ 

Ign the the Met Ivicae The Met Incala the The Ala Met Met The

Atty. Docket No. MNI-070CP4

Lys Cys Thr Tyr Fro Val Leu Lys Glu Asp Ala Fro Arg Gln His Val 3:u Thr Phe Phe Gln Ala Val Phe His Cys Ile Ile Lys Trp Lys Phe 200 Lys Thr Ala Ser Ash Lys Thr Arg Met Phe Thr Asp Ile Cys Lys Gly 215 Ser Gly Tyr Leu Ser Ser Ser Ile Cys 230 HU10 - E2 4211 - 2051 -1.112 - DNA 4213 - Rattus sp. 1.120  $\pm 1.21 \pm \text{CDS}$  $-0.122 \cdot (85) .. (1305)$ -1:00 - 2 quiggayota agcactbact goggtgbtgc cotgbgtbtg cagagaacaa ggaaagcttc 60 tictigeaggge tigteagetige casa atg ase ggb gtg gas ggg ase ase gag 111 Met Ash Gly Val Glu Gly Ash Ash Glu Induct oto got also also tog also too got off gto bog gas gat ofg 159 Leu Pro Leu Ala Ash Thr Ser Thr Ser Ala Leu Val Pro Glu Asp Leu 1.5 yat ofd aag caa gad cag bog sto ago gag gaa abt gad abg gtg ogg 207 Asp Leu Lys Gln Asp Gln Pro Leu Ser Glu Glu Thr Asp Thr Val Arg 35 255 gay atq gag got goa ggt gay god ygt gog gag gga ggo gog tod ood Glu Met Glu Ala Ala Gly Glu Ala Gly Ala Glu Gly Gly Ala Ser Pro 50 gat too gag can tgo gan one hag nto tgo nto nga gto got gag aat 303 Amp Ser Glu His Cys Amp Pro Gli Leu Cym Leu Arg Val Ala Glu Amn ggo tg. get gee gea geg gga gag ggg etg gag gat ggt etg tet tea Gly Cys. Ala Ala Ala Ala Gly Glu Gly Leu Glu Asp Gly Leu Ser Ser tha aad tigh dig gad yee hor big groupot groups are gon aan gad agn Ser Lys Cys Gly Asp Ala Pro Leu Ala Ser Val Ala Ala Asn Asp Ser aga antoning gas gon agtoggt, granging ggnomia gag ting hag ang ang ang 247 Terromer troponing Alpone interacts mai diferency die more die park by t

		oog Pro 140														543
gog Ala	act Thr 155	aca Thr	ggc Gly	aag Lys	gaa Glu	gqa G.y 160	gaa Glu	gca Ala	31y 3gg	gog Ala	gca Ala 165	at; Met	cag Gln	gaa Glu	aag Lys	591
		gtg Val														639
		act Pro														687
		gat Asp														735
		cag Glr. 220	-	-	-					_	-				-	783
-	-	oga Arg	-											_		831
		egg Arg					-		_	-		_				879
		atg Met														927
		aga Arg														975
		cga Arg 300														1023
		gtg Val														1071
		dag Gln														1119

ata det das att ate asa ded das ent tod to ear even en esta table. Il 1 The Ala Slo Lee The Type Sly Sho Leo Tep Der Abn Er (1969 Sln Type 1877

tac otg atg ggo gat ggg oca ogd aga gga gtt oga gto oca oca agg Tyr Leu Met Gly Asp Gly Pro Arg Arg Gly Val Arg Val Pro Pro Arg 380 - 385 - 390	1263
cag coa gtg gag agt coc agg too tto agg tto cag tot ggo Gln Pro Val Glu Ser Pro Arg Ser Phe Arg Phe Gln Ser Gly 391 400	1305
taagstotgs ostogtgaga agotottada gaagagtoot taccacotto toagottggo	1365
tagoligoatg daggottotg totgotttot ottoottgga tigigioott iggitottot	1425
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aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	2051

<210 - 53

 $\pm 211 \pm 407$ 

-1212 · EF.T

<213 Fattus sp.</pre>

41400 / 53

Met Asn Gly Val Glu Gly Asn Asn Glu Leu Pro Leu Ala Asn Thr Ser

Thr Ver Ala Leu Val Fre Glu Asp Leu Asp Leu Lys Ein Asp Ein Fre 20 - 25 - 26

Leu Jer Glu Glu Thr Asp Thr Val Arg Glu Met Glu Ala Ala Gly Glu 35 40 45

Ala Gly Ala Glu Gly Gly Ala Ser Fro Asp Ser Glo His Cys Asp Fro 50 55 60

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Ala	Gly	Fro 115	Leu	Ser	Pro	Ala	Lys 120	Pro	Lys	Thr	Leu	Glu 125	Ala	Ser	Gly
Ala	Val 130	Gly	Leu	Gly	Ser	Gln 135	Met	Met	Pro	Gly	Fro 140	Lys	Lys	Thr	Lys
Val 145	Met	Thr	Thr	Lys	31 y 150	Ala	Ile	Ser	Ala	Thr 155	Thr	Gly	Lys	Glu	Gly 160
Glu	Ala	Gly	Ala	Ala 165	Met	Gln	Glu	Lys	Lys 170	Gly	Val	Gln	Lys	Glu 175	Lys
Lys	Ala	Ala	Gly 180	Gly	Sly	Lys	Asp	Glu 185	Thr	Arg	Pro	Arg	Ala 190	Pro	Lys
Ile	Asn	Asn 195	Суз	Met	Asp	Ser	Leu 200	Glu	Ala	11€	Азр	Gln 205	Glu	Leu	Ser
Asn	Val 210	Asn	Ala	Cln	Ala	Asp 215	Arg	Ala	Pho	Leu	Gln 220	Leu	Clu	Arg	Lys
Phe 225	Gly	Arg	Met	Arg	Arg 230	Leu	His	Met	Gln	Arq 235	Arg	Ser	Phe	Ile	11e 240
Gln	Asn	Ile	Pro	Gly 245	₽he	Trp	Val	Thr	Ala 250	Ph€	Arg	Asn	His	Pro 255	Glrı
Leu	Ser	Pro	Met 260	Ile	Ser	Gly	Gln	Asp 265	Glu	Asp	Met	Met	Arg 270	Tyr	Met
ile	Asn	Leu 275	Glu	Val	Glu	Glu	Leu 280	Lys	His	Pro	Arg	Ala 285	Gly	Cys	Lys
Phe	Lys 290	Phe	Ile	Phe	Glr.	Ser 295	Asn	Pro	Tyr	Phe	Arg 300	Äsn	Glu	Gly	Leu
Val 305	Lys	Glu	Tyr	Glu	Arg 310	Arg	Ser	Ser	Gly	Arg 315	Val	Val	Ser	Leu	Ser 320
Thr	Pro	Ile	Arg	Trp 325	His	Arg	Gly	Gln	Glu 330	Pro	Gln	Ala	His	Ile 335	His
Ar i	Ast.	Ara	11:1 14	oly.	Asr.	Thr	* * , s	Fro	Perr	Fhe	Ether	Ast.	Trr -:	Fhe	Ser
Asp	His	Ser 355	Leu	Leu	Glu	Fhe	Asp 360	Arg	119	Ala	Glu	Ile 365	Ile	Lys	Gly
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toloccapta gtotgactto ttocaaa atg ago ggo otg gat ggg ggb aab aag 114
                                  Met Ser Gly Leu Asp Gly Gly Ash Lys
of: oot ate gee caa aca ggo ggo etg got got eed gab dat gee tea
Lei Pro Leu Ala Gln Thr Gly Gly Leu Ala Ala Pro Asp His Ala Ser
yg_{\pm} gat edg gad eta gad dag tye baa ggg eth egt gad gad ach gag
                                                                           210
Gly Asp Pro Asp Lei Asp Gln Gys Gln Gly Lei Arg Gli Glu Thr Clu
                                                                           253
go; aca cag gtg atg gog aac aca ggt ggg ggc agc etg gag acc gtt
Ala Thr Gln Val Met Ala Asn Thr Gly Gly Gly Ser Leu Glu Thr Val
gow gag gag ggt goa too bag gat bot gto gad tat ggb bod gog bto
                                                                           306
Ala Glu Gly Gly Ala Ser Gln Asp Pro Va! Asp Cys Gly Pro Ala Leu
ogo gto boa gtt god ggg agt ogo ggc ggt god gog aco add god ggg
Arg Val Pro Val Ala Gly Ser Arg Gly Gly Ala Ala Thr Lys Ala Gly
                                                                           354
cast gag gat got doa bot tot acg awa ggt ctq gwa goa god tot god
                                                                           402
Glm Glu Asp Ala Pro Pro Ser Thr Lys Gly Leu Glu Ala Ala Ser Ala
                                             100
                                                                           450
god gag got got gad agd agd dag aaa aat ggd tit dag off gga gag
Ala Glu Ala Ala Asp Ser Ser Gln Lys Asr. Gly Cys Gln Leu Gly Glu
                                        115
                  110
rowingt gire not got ggg dag aag get eta gaa gee tgt ggu jea ggg
Pro Arg Gly Pro Ala Gly Gln Lys Ala Leu Glu Ala Cys Gly Ala Gly
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                                    130
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ggo tig ggg tot dag atg ata dog ggg aag aag gdo aag gaa gig adg Gly Leu Gly Ser Gln Met Ile Pro Gly Lys Lys Ala Lys Glu Val Thr

Act àsa asa cir duc atc tog jos gos gog jas asi gag ggs gaa goa Thr Lys Lys Arg Ala Ile Ser Ala Ala Val Glu Lys Glu Gly Glu Ala

			atg Leu							734
			agg Arg							786
			Jac His							834
			gtt Val 255	-	_					882
			caa Gln							930
			att Leu							978
			aad Asn							1026
			taa Ser							1074
			ggc Gly 335							1122
			ato Ile	-						1170
			gac Asp						ctg Leu	1218
			Gln							10.69
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<sup>&</sup>lt;21 J→ 55

<sup>&</sup>lt;211: 414

<sup>&</sup>lt;212> PRT

<sup>:213.</sup> Homo sapiens

<sup>€4000 55</sup> 

Met Ser Gly Leu Asp Gly Gly Asn Lys Leu Pro Leu Ala Gln Thr Gly
1 5 10 15

Gly Leu Ala Ala Pro Asp His Ala Ser Gly Asp Pro Asp Leu Asp Gln 20 25 30

Cys Gl<br/>n Gly Leu Arg Glu Glu Thr Glu Ala Thr Gl<br/>n Val Met Ala As<br/>n -45

The Gly Gly Gly Ser Lea Glu Thr Val Ala Glu Gly Gly Ala Ser Gla 50 60

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Arg Sly Sly Ala Ala Thr Lys Ala Sly Sln Slu Asp Ala Pro Pro Ser

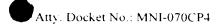
Fig. App. App. Typ App. Let. App. Els. App. App. Els. App. El

	130					135					140				
Pro 145	Зlу	Lys	Lys	Ala	lys 150	Glu	Val	Thr	Thr	Lys 188	Lys	Arg	Ala	Ile	Ser 160
Ala	Ala	Val	Glu	Lys 165	Glu	Gly	Glu	Ala	Gly 170	Ala	Ala	Met	Glu	Glu 175	Lys
Lys	Val	Val	Gln 180	Lys	Glu	Lys	Lys	Val 135	Ala	Gly	Gly	Val	Lys 190	Glu	Glu
Thr	Arg	Pro 195	Arg	Ala	Pro	Lys	11e 200	Asn	Asn	Суѕ	Met	Asp 205	Ser	Leu	Glu
Ala	Ile 210	лsр	Gln	Glu	Leu	Ser 215	Asn	Vāl.	Asrı	Ala	Gln 220	Alā	Asp	Arg	Ala
Phe 225	Leu	Gln	Leu	Glu	Arg 230	Lys	₽he	Gly	Arg	Met 235	Arg	Arg	Leu	His	Met 240
Gln	Arg	Arg	Ser	Phe 245	Il⊕	Ιl∈	Glm	Asrı	Ile 250	Pro	Gly	Phe	Trp	Val 255	Thr
Ala	Phe	Arg	Asn 260	His	Pro	Gln	Leu	Ser 265	Pro	Met	Ile	Ser	Gly 270	Gln	Asp
Glu	Asp	Met .:75	Leu	Arg	Туг	Met	Ile 280	Asri	Leu	Glu	Val	Glu 285	Glh	Leu	Lys
His	Pro 29J	Arg	Ala	Gly	Суз	1578 295	Phe	Lys	Phe	lle	Phe 300	Glr.	Gly	Asn	Pro
Tyr 305	Phe	Ārg	Asn	Glu	Gl; 310	Leu	Val	Lys	Glu	Tyr 315	Glu	Arg	Arg	Ser	Ser 320
Gly	Arg	"al	Vāl	Ser 325	Leu	Ser	Thr	Pro	11e 330	Arg	Trp	His	Arg	Gly 335	Glr.
Asp	Pro	Gln	Ala 340	His	Ile	His	Arg	Asr. 345	Arg	Glu	Gly	Asn	Thr 350	Ile	Pro
Ser	Phe	Phe 355	Asr	Trp	Fhe	Ser	Asp 360	His	Ser	Leu	Leu	Glu 365	Phe	Asr	Ari
11.0	Ala	-41 ti	11.9	::	Lys	31 y 37 t	Jìu	Leu	TYP	11.	Asi.	111	1.00	siir.	Tyr
Tyr 385	Leu	Met	Gly	Glu	Gly 390	Pro	Arg	Arg	Gly	Ile 395	Arg	Gly	Pro	Pro	Arq 400
Gin	Pro	V/,1 }	Glu	Ser 405	Ala	Arq	Ser	Phe	Arq 410	Ehe	Gin	Ser	Gly		

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									gcc Ala							96
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									gta Val					_		193
									J-J Val							24 :
atg Leu	cta Leu	gaa Glu	gag Glu	got Ala 85	gtg Val	cca Pro	otg Leu	tcc Ser	tgc Cys 90	acc Thr	ctt Leu	adt Pro	ааа Lys	gtc Val 95	aca Thr	283
									aat Asn							336
									oto Leu							384
									ttc Phe							432
				Asp		Pro			aag Lys		Āsp					<b>4</b> 8. C
									aag Lys 170						in Ser	5.2%
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225 230 235 240 cas gto off gtg goa ggo dag aad agg gst tgt gog tit ofa tgg gas 76 -Gln Val Leu Val Ala Gly Gln Asn Arg Asp Cys Ala Phe Leu Trp Glu gas aga ott tgo too agg tta otg gta tgg sat tgaactggac cagoosasgg 8.11 Asp Arg Leu Cys Ser Arg Leu Leu Val Trp His geaageatga eggetetgtg tteggtgtee ggtaetttae etgtgebeeg aggeaegggg 881 tetttysase agoatstogt atosagagga tiggiggate caetgatoso ostggagasa 941 gtgttggago aaaaaagtg batcaagtga baatgacaba goodaaabgb accttbabaa  $10 \cdot 11$ bagtooggad bobaaaggab attqbatbag agaabtotat btooaggtta btottotgot 10%1getgytttoc ttygatgetg agggeggaga tgeagtetta gagabetgga tabetgabab 1121 aqaqabaqaq toobototaq batbibotqa babaaqqaqa boobaqibab botaaqataq  $11\cdot 1$ agatticecag tgabaectoc agaatagaaa eecegttage bagebetega ttactgaggt 1741 occattatta adagatotoo catgacgaet cocceaaata dagadoteat gttacceeaa 1391 aagagattoo otgagtagoa oottoaggot agtoootgto oootaccoot cagagoagat  $1\%{\circ}1$ ttococcaat aaacatttto cacatcacco aagggatgot gaccototoc acgacaggas 14.1 gttettgagt tabbagtgga ttagagtbbe atgaatgaag abbebbbbb bebbgttbt 14-1 cottaagoat aggteatace todagaatag ebagecacat bactatoobe atgtaacate 1541 agtictectica adatiggegtig aggicalitag adagaeetta tactistectic tectriciticag 1(-1)agatycooto cattoactta agtocotytt otcaccooty aacaagacac otaattaacc 1881ggoccactica deticaattad aaadaccaaa ategtootgg aagcatgaat tadaggacag 17.1 caagtistise tgedetetge accettgaga aanseedagt geettgtatg aageddaces 1781 hawatqqhoo abaqtoootg tgotqqobaa qqhtoobaga aaattotota tiittitaaag 1841 taaraa mit oo soostatig gyyygatoon maaatiitgga gabbosatti täääävästi 1901 ggjagttsaa attocagaga gaatatatat tatatataat ooccaattoo coatgottoo 1961 aagooctaba atototagaa gacoocaaat tibtaattob baggabttob obtabobaag 2021 toralia galatino titora alatino no oraligiga at no consistina algorita antalora ala anciono tora (2081).

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Arg Lys Gly Gln Val Pro Ala Glu Val Val Pro Asp Pro Met Asp Met 50 60

Ser Leu Asp Lys Ala Glu Ala Ala Leu Val Ala Lys Glu Leu Arg Thr 65 70 75 80

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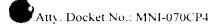
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Gly Val Arg Tyr Phe Ile Cys Fro Pro Lys Gln Gly Leu Phe Ala Ser 165 170 170

Val Ser Lys Val Ser Lys Ala Val Asp Ala Fro Fro Ser Ser Val Thr

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G	ln	Val	Leu	Val	Ala 245	Gly	Gln	Asn	Arg	Asp 250	Cys	Ala	Phe	Leu	Trp 255	Glu	
А	sp	Arg	Leu	Cys 260	Ser	Arg	Leu	Leu	Val 265	Trp	His						
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			tot Ser														48
			gct Ala														96
			atg Leu 35														144
			aat Pro														192
P			ggt Gly					_		-			_		_		243
			cag Glr														283
			ada Eta													ogr Akj	334
			gac Asp 115	_			Asp										384
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		gat atg god ogd ogg Asp Met Ala Arg Arg 205	
		ate aca tgg tee att Ile Thr Trp Ser Ile 220	
		ctt too too atg aaa Leu Ser Ser Met Lys 235	
	Gly Glu Ala Lys	atc aag gcc gac tac Ile Lys Ala Asp Tyr 250	
		cgt age ctg gaa gat Arg Ser Leu Glu Asp 270	810
tagaactgtg acttotct	do tootottoog bad	gotoatat gtgtatattt t	cctgaattt 870
etdateteea accettig	ct tocatattgt go	agotttga gadtagtgod t	ogtgogtta 930
togttoattt tgetgtit	ot tiggtaggio ti	ataaaaca cacatteetg t	gatacgatg 990
totgaaggag otootgac	ct ttgtctgaag tg	gtgaatgt agtgcatatg a	atacacagtg 1030
taacatacas attgtaac	at atacgttctg tax	aacttgta tgtaaggtga c	ctaccccttc 11:0
detectates agtaaact	gt aaacaggact ac	igcatgtg ctctattggg c	gatggaaggc 1170
cagatotoca tacogtgg	ac aggtacataa gga	aaactaga ccacttgcaa c	ttagtgttt 1230
gttgagtaac cattttgc	ag gaagtattto cat	ittaaaaa acaaaagatt a	atgttccaa 1290
ttättigtäg mitodoosa	gt atsaatsaaj as:	igtitgtg gagbabtigg s	gaa mattii 1980
gttitootaa magaegti	tg maaggstgaa ogt	aafagāt aaatoagiti c	nn mgaaag 1410
tgtgaaagta aaaagaga	go taggtggtra gaw	ottaaatt gabatogtot t	gtttaagda 1470
tattttattt dadtgaga	ga tttaatatoa ago	gactttta tatactcaat t	actaggaaa 1530
tuttittta agtäraat	titi kawa awanati Jwatiti. Anaz	बंबबा प्रिप्त कि विशेषका विकास स	an entite of 1991

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<sup>-0210× 59</sup> 

<sup>·3211&</sup>gt; 270

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Rattus sp.

<sup>&</sup>lt;400 > 59

All Asy Wer The Wer Arg Try All Sid All Ded Arg Sid the Ser Siy

Arg Leu Ala Glu Met Fro Ala Asp Ser Gly Tyr Fro Ala Tyr Leu Gly 20 25 30

Ala Ard Leu Ala Ger Fhe Tyr Glu Ard Ala Gly Ard Val Lys Cys Leu

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His Phe Pro Ser Val Asn Trp Leu Ile Ser Tyr Ser Lys Tyr Met Arg Ala Leu Asp Glu Tyr Tyr Asp Lys His Phe Thr Glu Fhe Val Fro Leu Arg Thr Lys Ala Lys Glu Ile Leu Glu Glu Glu Asp Leu Ala Glu 130 Ile Val Gln Leu Val Gly Lys Ala Ser Leu Ala Glu Thr Asp Lys Ile 150 155 Thr Leu Glu Val Ala Lys Leu Ile Lys Asp Asp Phe Leu Gln Gln Asn 165 170· Gly Tyr Thr Pro Tyr Asp Arg Phe Cys Pro Phe Tyr Lys Thr Val Gly Met Leu Ser Ash Met Ile Ser Phe Tyr Asp Met Ala Arg Arg Ala Val 200 Glu Thr Thr Ala Gln Ser Asp Asn Lys Ile Thr Trp Ser Ile Ile Arg 210 215 220 Glu His Met Gly Glu Ile Leu Tyr Lys Leu Ser Ser Met Lys Phe Lys 235 Asp Pro Val Lys Asp Gly Glu Ala Lys Ile Lys Ala Asp Tyr Ala Gln 245 Leu Leu Glu Asp Met Gln Asn Ala Phe Arg Ser Leu Glu Asp 265 ·:::10> 60 HM111> 1489 HIB123 DNA  $\cdot:213$ > Rattus sp. ·:220> <221> CDS <222> (1)..(1053) gaa diggiintin nog ginning gag dat ging oga dag hag hoo dto hto too . As Ala Arg Leu Pro Ala Pro Glu His Ala Arg Gln Gln Pro Leu Leu Ser ggo dot gag doo gga tog too god ogg gtt ona gri doo ggo gtg god Gly Pro-Hu Pro-Hy Jer Ser Ala Ari Val Pro-Vil Pro-Sly Vil Ala

			aga Arg												2 1 2 2 4 5
			gag Glu												288
			oto Leu 100												336
			Le i												384
			aat Pro												432
			god Ala												480
			cca Pro		_		_		-	_	-	-	-	-	528
			ogg Arg 180												576
			ege Arg												624
			got Ala												672
			GJA āāā												720
its Fhe	tig Loui	j. j	ogo Arg	34.1 Arr 245	4 <b>3</b> *. Cer	agr Arg	iag ili.	igg Arg	aa Aen 250	 tt: Iha	it.	Ali Ali	ut 1 Leu 255	ਕਰੀ ਹੈ ਹੋਵਾਂ:	"er
			got Ala 263												916

Pro Leu Arg Gln Arg Arg Val Ar; Pro Leu Gln Glu Leu Cys Arg Gl 305 310 315 32	
ogo ato gtg god god gtg ggt dyd gag aad dtg gda dgd ato dot dt Arg Ile Val Ala Ala Val Gly Arg Glu Ash Leu Ala Arg Ile Pro Le 325 330 335	
Ash Pro Val Leu Arg Asp Tyr Leu Ser Ser Phe Pro Phe Gln Ile 340 345 350	1053
tyachggety cogcogtgod ogcagoatta agtgggageg esttattatt tottatt	catt 1113
iattattatt attittetgy aabbacgigg gagobetoob egeotaggio ggaggga	agtg 1173
ggtgrggagg gtgagatged toecacttot ggctggagae oftatocogo ofotogo	gggg 1233
pasthosots obgqtgeted steepggted codtggttgt ageagettgt gtotggc	ggaa 1293
agganetgaa etebangont anninteest gittaesigt teecagiste titgese	caaa 1050
spaggggtgg gggagggtot otggottoat tittotgotg tgcagaatat totatit	itat 1413
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<4000 61

Ala Arg Leu Pro Ala Pro Glu His Ala Arg Glr. Gln Pro Leu Leu Ser 10

Gly Pro Glu Pro Gly Ser Ser Ala Arg Val Pro Val Pro Gly Val Ala

Ser Arg Arg Gln Pro Arg Gly Gly Lys Pro Pro Ser Gly Asp Gly Leu 35 40 45

Glu Ser Gly Pro Ser Pro Arx Fro Leu Leu His Ala Arx Gly Gli Ala

Gly Leu His Arg Glr. Ser Gly Arg Val Pro His Thr Gly Thr Ala Tyr 65 70 75 80

Phe Ala Asp Glu Pro Thr Glu Ala Gln Ata Pro Gly Gly Pho Cys Val

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Ing Er Jinner Er Ala Sly Er Ger Ger Arr Met Val Ala Arr Agn. 18

Gir. Val Ala Ala Asp Asm Ala Ile Ser Pro Ala Ser Glu Pro Arg Arg Arg Pro Glu Pro Ser Ser Ser Ser Ser Ser Ser Pro Ala Ala Pro 165 Ala Arg Pro Arg Pro Cys Pro Val Val Pro Ala Pro Ala Pro Gly Asp 185 Thr His Phe Arg Thr Phe Arg Ser His Ser Asp Tyr Arg Arg Ile Thr 200 Arg Thr Ser Ala Leu Leu Asp Ala Cys Gly Phe Tyr Trp Gly Pro Leu 215 Ser Val His Gly Ala His Glu Arg Leu Arg Ala Glu Pro Val Gly Thr Phe Leu Val Arg Asp Ser Arg Gln Arg Asn Cys Phe Phe Ala Leu Ser Val Lys Met Ala Ser Gly Pro Thr Ser Ile Arg Val His Phe Glr. Ala 265 Gly Arg Phe His Leu Asp Gly Ser Arg Glu Thr Phe Asp Cys Leu Phe 280 Glu Leu Leu Glu His Tyr Val Ala Ala Pro Arg Arg Met Leu Gly Ala 295 300 Pro Leu Arg Gln Arg Arg Val Arg Pro Leu Gln Glu Lou Cys Arg Gln 315 31C Arg Ile Val Ala Ala Val Gly Arg Glu Asn Leu Ala Arg Ile Pro Leu 325 330 Ash Pro Val Leu Arg Asp Tyr Leu Ser Ser Phe Pro Phe Gln Ile 340 345 <210> £2 <211> 1194 <2112 > DNA +213 + Rattus sp. +221> CDS <222> (130)..(765) <.400 > 62 

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					-	-								taa Ser		315
	-			-					_	-		-	_	gcc Ala		363
														egg Arg		411
														cag Gln		459
	-					_	-	_	_	_	_			acg Thr 125	_	507
														agc Ser		555
														gcg Ala		603
														cgg Arg		651
														ege Arg		699
			Arg											atg Deu 205		747
			tto Ene 210			† 7a	ا فرفت	1.7		37.3	• • •	17:37	· ·	:		
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ju∓:	3311.2	; • •	13.12 <sup>t</sup>	aggt	. 3 . 49	ja jy j	jagt:	1 31 <sup>t</sup>	.વ. વેં	14 J G	yt ga	igat j	jan t	: .: .: .:	. ಶಕ್ಷಣಕ	9 <u>1.5</u> ,



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1194

<210> 63

<211 - 212

KI12F FRT

<213∵ Rattus sp.

<400> 63

Met Val Ala Arg Asn Gln Val Ala Ala Asp Asn Ala Ile Ser Pro Ala 1 5 10 15

82

Ser Pro Ala Ala Pro Ala Arg Pro Arg Pro Cys Pro Val Val Pro Ala 35 40 45

Pro Ala Pro Gly Asp Thr His Phe Arg Thr Phe Arg Ser His Ser Asp 51 55 60

Tyr Arg Arg Ile Thr Arg Thr Ser Ala Leu Leu Asp Ala Cys Gly Phe 65 70 75 80

Tyr Trp Gly Pro Leu Ser Val His Gly Ala His Glu Arg Leu Arg Ala 85 90 95

Glu Pro Val Gly Thr Phe Leu Val Arg Asp Ser Arg Gln Arg Ash Cys 100 100 110

Phe Phe Ala Leu Ser Val Lys Met Ala Ser Gly Pro Thr Scr Ile Arg 115 120 125

Val His Phe Gln Ala Gly Arg Phe His Leu Asp Gly Ser Arg Glu Thr 130 135 140

Pho Asp Cys Leu Phe Glu Leu Leu Glu His Tyr Val Ala Ala Pro Arg 145 150 155 160

Arg Net Leu Gly Ala Pro Leu Arg Gln Arg Arg Val Arg Pro Leu Gln 165 170 175

Giu Leu Cys Arg Gin Arg ile Val Ala Ala Val Gly Arg Glu Ash Leu 190 - 190

Als Ard The Prother Ash Ero Wal Let Arg Asp Tyr Let Der Jer Ehe 195 200 205

Pro Phe Gln Ile 210

1955 A 1 1 1

r400% 64 ottouaaaga otgoagogoo toagggooda ggtttoaada gattottoaa a atg oda Met Pro 1	(1)
too baa atg gag cat gob atg gaa acc atg atg ott aca tit cab agg Ser 3ln Met 3lu His Ala Met Glu Thr Met Met Leu Thr Phe His Arg 5 10 15	105
tit goa ggg gaa aaa aas tas tig asa aag gag gas sig aga gig sic Phe Ala Gly Glu Lys Asn Tyr Leu Thr Lys Glu Asp Leu Arg Val Leu 20 30	153
atg gaa agg gag tto dot ggg ttt ttg gaa aat daa aag gad dot dtg Met Glu Arg Glu Phe Pro Gly Phe Leu Glu Ash Gln Lys Asp Pro Leu 35 40 45 50	201
got gtg gad aaa ata atg aaa gad otg gad dag tgd oga gat gga aaa Ala Val Asp Lys Ile Met Lys Asp Leu Asp Gln Cys Arg Asp Gly Lys 55 60	249
gtg ggo the bag ago the ota toa ota gtg gbg ggg otb ato att gba Val Gly Phe Gln Ser Phe Leu Ser Leu Val Ala Gly Leu Ile Ile Ala 70 75 80	297
tgo aat gad tat tit gia gia dad aig aag dag aag aag taggodaadi Cys Asn Asp Tyr Phe Val Val His Met Lys Gln Lys Lys 85 90 95	346
ggageoctgg tacccacace tigatgegie eleteccatg gggieaacig aggaateige	406
occaetyctt cetytyayca galeaggaee ettaggaaat ytycaaataa catecaaete	466
maattogada agdagagaaa gaaaagttaa todaatgada gaggagottt ogagttttat	526
attgitigea toeggitigee eteaataaag aaagteitti tilitaagti eegaaaaaaa	586
dadagadada aaaa	600
<pre>&lt;210&gt; 65 &lt;211&gt; 95 &lt;212&gt; FRT &lt;213&gt; Rattus sp.</pre>	
Het Pro Ser Gln Met Glu His Ala Met Glu Thr Met Met Leu Thr Phe 1 5 10 15	
His Arg Phe Ala Gly Glu Lys Ash Tyr Leu Thr Lys Glu Asp Leu Arg 25	

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Ile	Ala	Cys	Asn	Asp 85	Tyr	Fr.y	Val	Val	His 90	Met	Lys	iin	Lys	Lys 95		
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	0> 1> C 2> +		(636	)												
क्ट्	0> 6 gcg Ala	tac	_				_						_			48
	ggt Gly															96
	gtg Val													-		144
	att Ile 50				-									_		192
	gag Glu															240
	got Ala					_				_	-	_				288
_	aca Thr				-	-	-	-	-						-	336
	atr Ile															384
	aaa Lys 130															432
	ata Met														tt: Phe	450

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	510 317 360		tgo Cys	tga												639
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	)i∙ 6° Ala		Ala	Tyr 5	Leu	Phe	Lys	Tyr	Ile 10	Ile	Ile	Gly	Asp	Thr 15	Gly	
Val	Gly	I.ys	Ser 20	Cys	Leu	Leu	Lea	Gln 25	Pho	Thr	Asp	Lys	Arg 30	Phe	Gln	
Pro	Val	His 35	Asp	Leu	Thr	Ile	Gly 40	Val	Glu	Phe	Gly	Ala 45	Arg	Met	Ile	
Thr	11e 50	Asp	Gly	Lys	Gln	Ile 55	Lys	Leu	Gln	Ile	Trp 60	Asp	Thr	Ala	Gly	
Gln 65	Glu	Ser	Ph.e	Arg	Ser 70	Ile	Thr	Arg	Ser	Tyr 75	Гуг	Arg	Gly	Ala	Ala 80	
Gly	Ala	Leu	Leu	Val 85	Tyr	Asp	Ile	Thr	Arg 90	Arg	Asp	Thr	Phe	Asn 95	His	
Leu	Thr	Thr	Trp 100	Leu	Glu	Asp	Alla	Arg 105	Gln	His	Ser	Asrı	Ser 110	Asn	Met	
Val	Ile	Met 115	Leu	lie	Gly	Asn	Lys 120	Ser	Asp	Leu	Glu	Ser 125	Arg	Arg	Glu	
Val	Lys 130	Lys	Glu	Glu	Gly	Glu 135	Ala	Phe	Ala	Arg	Glu 140	His	Gly	Leu	Ile	
The 141	Met	714	Thr	Ser	Ala I	Lys	Thr	Ala	Ser	Asn 1111	Vai.	914	71.5	Ala	Phe 16	
Ile	Asn	Thr	Ala	Lys 165	Glu	Ile	Tyr	Glu	Lys 170	Ile	Gln	Glu	Gly	Val 175	Phe	
Asp	Ile	Asn	Asn 150	Glu	Ala	Asn	Gly	Ile 1.:	Lys	Ile	Gly	Pro	Gln 1+	His	Ala	
								-						-		

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gag tat 3lu Tyr		. Gly Gl											96
gaa act Glu Thr													144
gag aag Glu Lys 50													192
tta sag Leu Gln 65			Tr.r										240
gcc ctg Ala Leu		-					-				-	*	288
acc gtt Thr Val		Asn Gl											336
gaa acc Glu Thr		-	-				-						384
ctg gag Leu Glu 130	cot gag Pro Glu	gda tgd A.a Trp	aaa Lys 135	cat H.s	gig Val	gaa Glu	got Ala	ata Ile I40	tat Tyr	ata Ile	gac Asp	atc Ile	432
dir dar Ala Asp 145	Stadt And Sen	14. f Gur. Va 150	1,611	sir Sor	auļ Lys	ant Amp	143 Tyr 155	iij Lys	ila Ala	dag Alb	44a 717a	##5 Asp 160	. <u>;</u>
oda gda Pro Ala												_	528
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Lys Val Glu Asn Phe lle His Lys Gln Glu Lys Arg Leu Fhe Thr Asn 210 215 220
tit can agg dag otg tto tgt tgg ott gat aaa tgg gtt gat otg act 720 Fhe His Arg Gln Leu Fhe Cys Trp Leu Asp Lys Trp Val Asp Leu Thr 235 230 240
atg dat gac att ogg agg atg gaa gaa gag acg aag aga cag otg gat 7.68 Met Asp Asp Ile Arg Arg Met Glu Glu 3lu Thr Lys Arg 3ln Leu Asp 245 250 255
gag atg aga saa aag gas see gtg aaa gga atg aca gea gat gas tag 816 Glu Met Arg Gln Lys Asp Pro Val Lys Gly Met Thr Ala Asp Asp 260 265 270
<pre>%210: 69 %211: 2263 %212: DNA %213: Simian sp.</pre>
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catgaacttg gaagggottg aaatgatago agttotgato gtoattgtgo titttgttaa 180
artattggaa bagtttgggo tgattgaago aggtttagaa gabagogtgg aagatgaabt 240
gdagatggod antgfragge atoggodtga ggodottgag ottotggaag occagagdaa 300
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gottgatata angasagosa harangabat gatgygtasa tgtabatato ongtootoss 660
Gagas jāt jirā i tirtā ķista arti altit ilgama Silattittit Dadilmāmatīgija tā Gamaātamāga. <sup>™</sup> ≥
tggggttgtt accatagatg agttcattga aagctgccaa aaagatgaaa acataatgcg 780
stopatgoag chottigaaa atgigattia actigicaac tagatoolga atopaasaga 840
inaaatgtgaa Stattutain ahnistaaag tiiggagistai Jahristagi atagattgot (900).
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<212> PRT

<213> Simian sp.

<400 × 20

Mer Ash tea Fig Gly Lea Gla Mer 110 All Val Lea 110 Val 110 Val 1

Leu Phe Val Lys Leu Leu Glu Gln Fhe Gly Leu Ile Glu Ala Gly Leu 25 30

Glo Asy Ser Val Glo Asy Glo Le. Glo Met Ala Thr Val Ary His Ary

5.5 90 95 Gin Gly Asp Ser Thr Thr Tyr Ala His Phe leu Phe Ash Ala Phe Asp 105 Thr Asp His Ash Gly Ala Val Ser Phe Glu Asp Phe Ile Lys Gly Leu 120 Ser lie Leu Leu Arg Sly Thr Val Sln Glu Lys Leu Asn Trp Ala Phe 135 Ash Leu Tyr Asp Ile Ash Lys Asp Gly Tyr Ile Thr Lys Glu Glu Met Leu Asp Ile Met Lys Ala Ile Tyr Asp Met Met Gly Lys Cys Thr Tyr Pro Val Leu Lys Glu Asp Ala Pro Arg Gln His Val Glu Thr Phe Phe 180 185 31n Lys Met Asp Lys Asn Lys Asp Gly Val Val Thr Ile Asp Glu Phe 200 205 195 Ile Glu Ser Cys Gln Lys Asp Glu Asn Ile Met Arg Ser Met Gln Leu 210 215 220 Phe Glu Asn Val Ile .225 +:210 - 71H2111 2259 -12121- DNA <213 Simian sp.</pre> -:400:- 71 gtogacagad goddotggod ggtggadtod tgagtottad tootgcaddo tgogtoddoa 60 qasa gaatg tgaggagagt ggaaagsatt toggetoags tggaggaggo cagetocaca 120 ggogutttoc tgtatgotca gaacagcaco aagogcagoa ttaaaqagog gotcatgaag 180 ctoffgecot gofcagotgo caaaacateg toffnets ha fitcaaaacag cyfigaagaf 240 deant greate introduction that inarrating all bittgegories itt gegott itt liggelegs neem agcaaattta ccaagaaaga gottoagato otttacayag gatttaagaa ogaatgooco 360 agtggtgttg ttaatgaaga aaccttcaaa gagatttact ogcagttott tocacaggga 420 gasteramaa matatgoada tittiotuti muutgegittig alangqadia maatgoauni 440

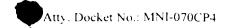
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atgogotoca tgcaquictt tgaaaatgtg atttaabttg tcaabtagat cotgaatoca 840 acagadaaat gtgaadtatt dtabbaddot taaagtogga gotaddactt ttagdataga 900 ttyotoagot tyacactgaa goatattaty caaacaagot ttyttttaat ataaagcaat 960 odicaaaaga titigagittio toagitataa attigoatoo titooataat gobactgagi 1020 toatgggatg ttotgastsa tttsatasto tgtgaatatt caaaagtaat agaatotggo 10-0 atatagfift attgattest tagssatggg attattgagg etttsasata teagtgattt 1140 taaaatacca gtgttttttg ctastsattt glatgtattc agtcstagga ttttgaatgg 1200 ttitotaata taotgabato tgoatttaat tiooagaaat taaattaatt tibatgiotg 1200 aatgotgtaa ttodatttat atabiitaag taaadaaata agattabiad aattaaabad  $13\pm0$ atagttodag tittotatggo officabiled canoninotat tagaaattaa tittatotgg 1300 tatttttaaa catttaaaaa tttatsatsa gatatoagsa tatgostaat tatgostaat 144) gasacttaat aagcatttaa tittissatsa tacattatag tisaaqqoota tatactatat 1800 ataatttttgg atttgtttaa tottabagge tyttttocat tytateatea agtggaagtt  $18\,60$ caagacggca tcaaacaasa caaggatgtt tacagacata tgcaaagggt caggatatot 1650atoctocayt atatgttaat gottaataad aagtaatoot aadagdatta aaggddaaat 1606 stytostott todoctgast teettasago atgittatut tasaagssat toagggasaa 1740 agaaacettg actaceccab tgtctactag gaacaaacaa acagcaagca aaattcactt 1800 tgaaagcacc agtggttcca ttacattgac aactactacc aagattcagt agaaaataag 1860 tgotoaacaa otaatooaga ttacaatatq atttagtqoa toataaaatt ocaacaatto 1920 agattattit taatcaccio agccacaaci giaaagtigo cacattacia aagacacaca 1980 categicent gittigiaga aatateacaa agaccaagag getacagaag gaggaaatti 2040 goaactytht tighaanaat aaathaggta thiatibidg tytayahata ghaist kas 2000 agotginiotis imatina nhadi tomadaaatti aasadtadha inaata hahar ahar sa misala 2000. ttgccatcgo gtgtttgtgt aaactcaatg tgcacatttt gtatttcaaa aagaaaaaat 2220 2259 aaaaagcaaaa taaaatgtta aaaaaaaaaa aaaaaaaaa

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Ser Ser Thr 3ly Gly Phe Leu Tyr Ala Gln Ash Ser Thr Lys Arg Ser

Ile Lys Glu Arg Leu Met Lys Leu Leu Pro Cys Ser Ala Ala Lys Thr

Ser Ser Pro Ala ile Gln Asn Ser Val Glu Asp Glu Leu Glu Met Ala

Thr Val Arg His Arg Pro Siu Ala Leu Glu Leu Leu Giu Ala Gln Ser

Lys Phe Thr Lys Lys Glu Leu Gln Ile Leu Tyr Arg Gly Phe Lys Asn

Glu Cys Pro Ser Gly Val Val Ash Glu Glu Thr Phe Lys Glu Ile Tyr

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